

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193289

Luminaire Tested: **GLEON-AF-01-LED-E1-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T4W-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3943.2 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

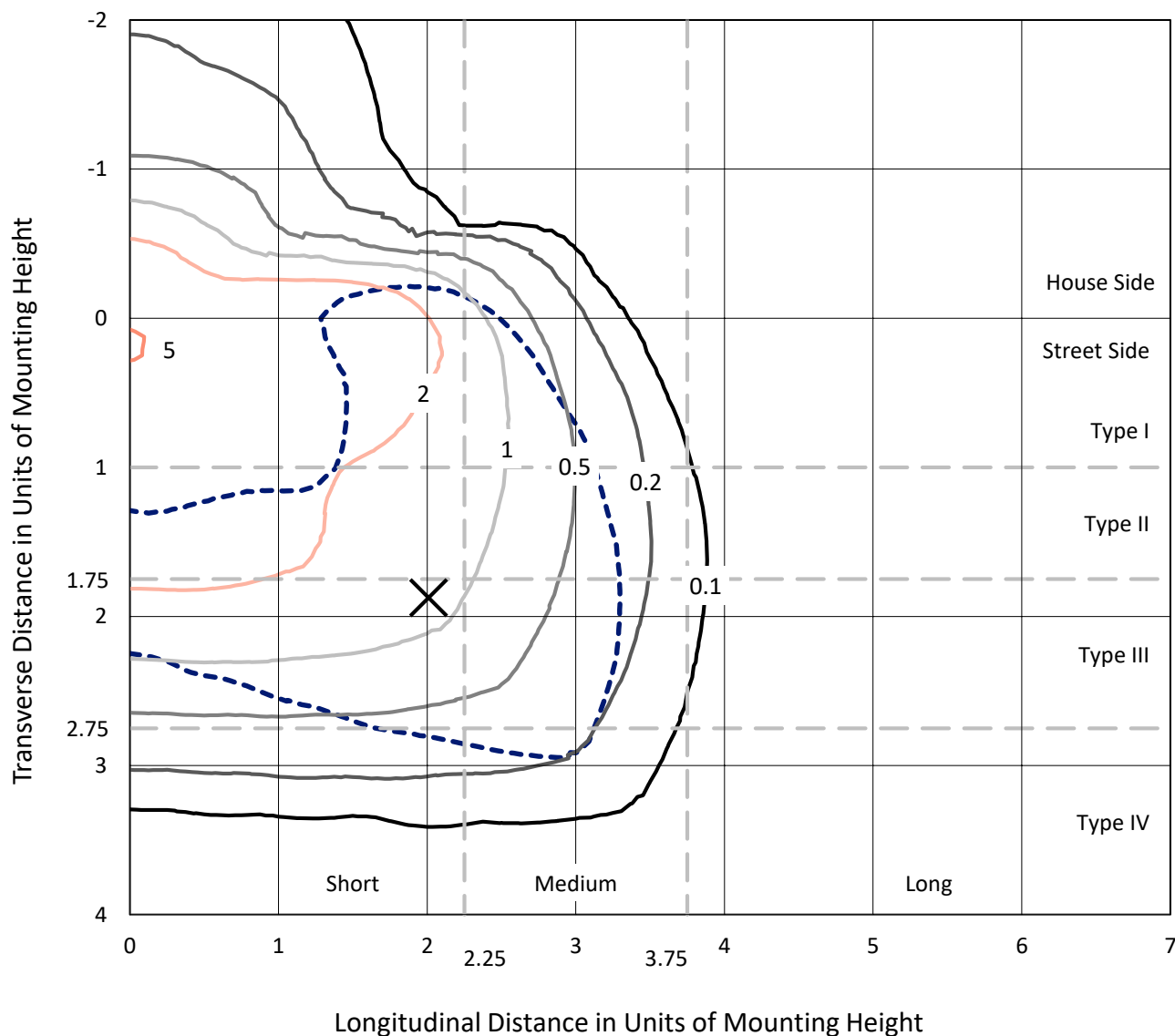


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

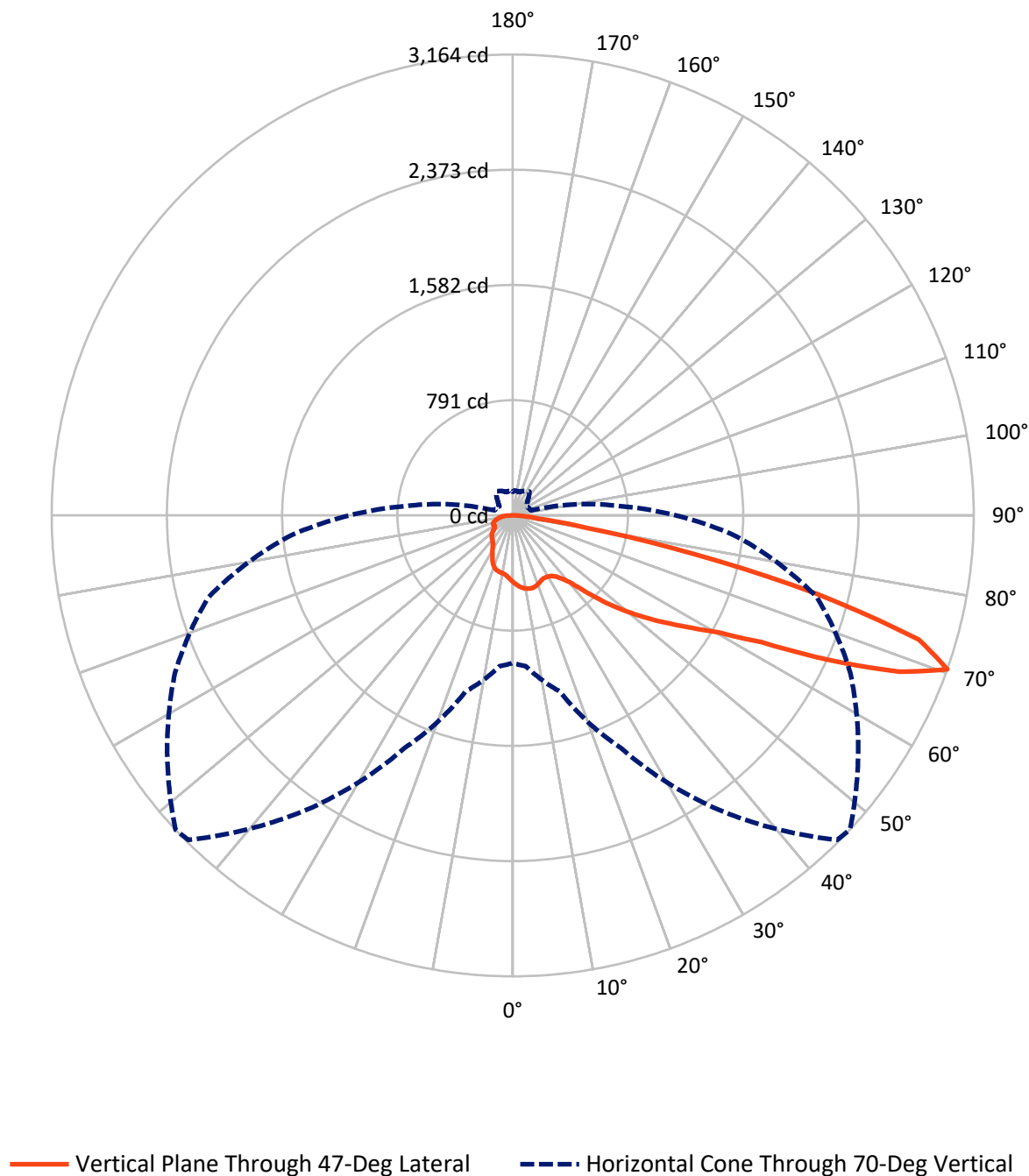


Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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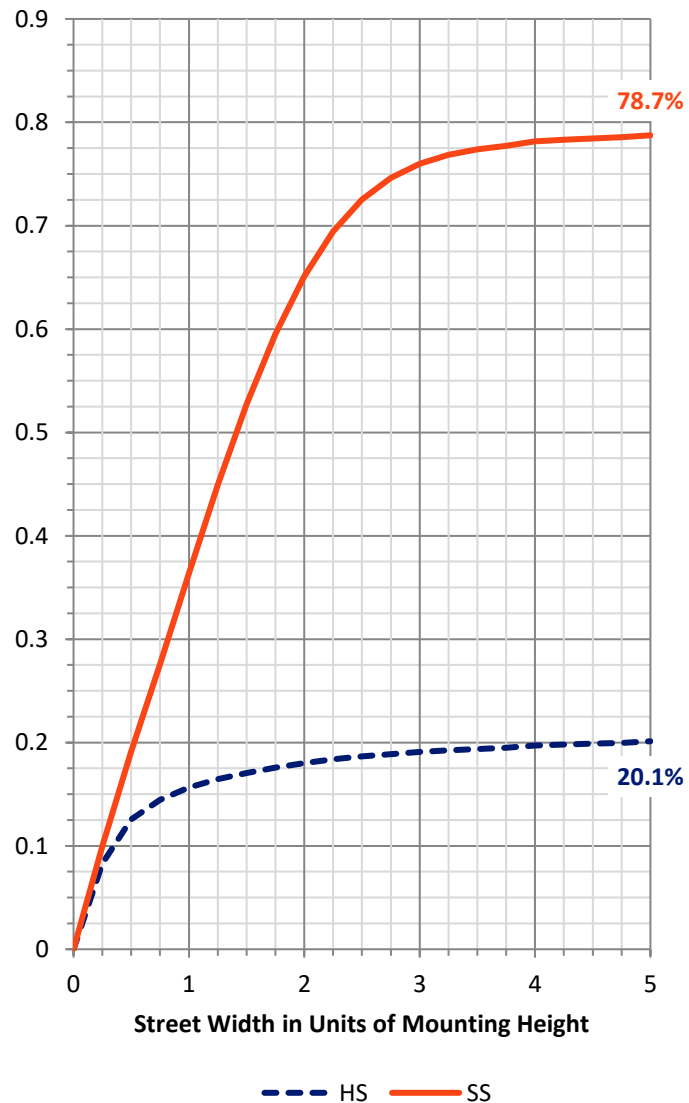
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	822.6	0.0	822.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	3120.5	0.0	3120.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	3943.2	0.0	3943.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	1.1
10°-20°	128.6	3.3
20°-30°	189.9	4.8
30°-40°	276.1	7.0
40°-50°	496.8	12.6
50°-60°	860.7	21.8
60°-70°	1228.4	31.2
70°-80°	630.6	16.0
80°-90°	88.3	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3943.2	100.0
0°-180°	3943.2	100.0

Coefficient of Utilization



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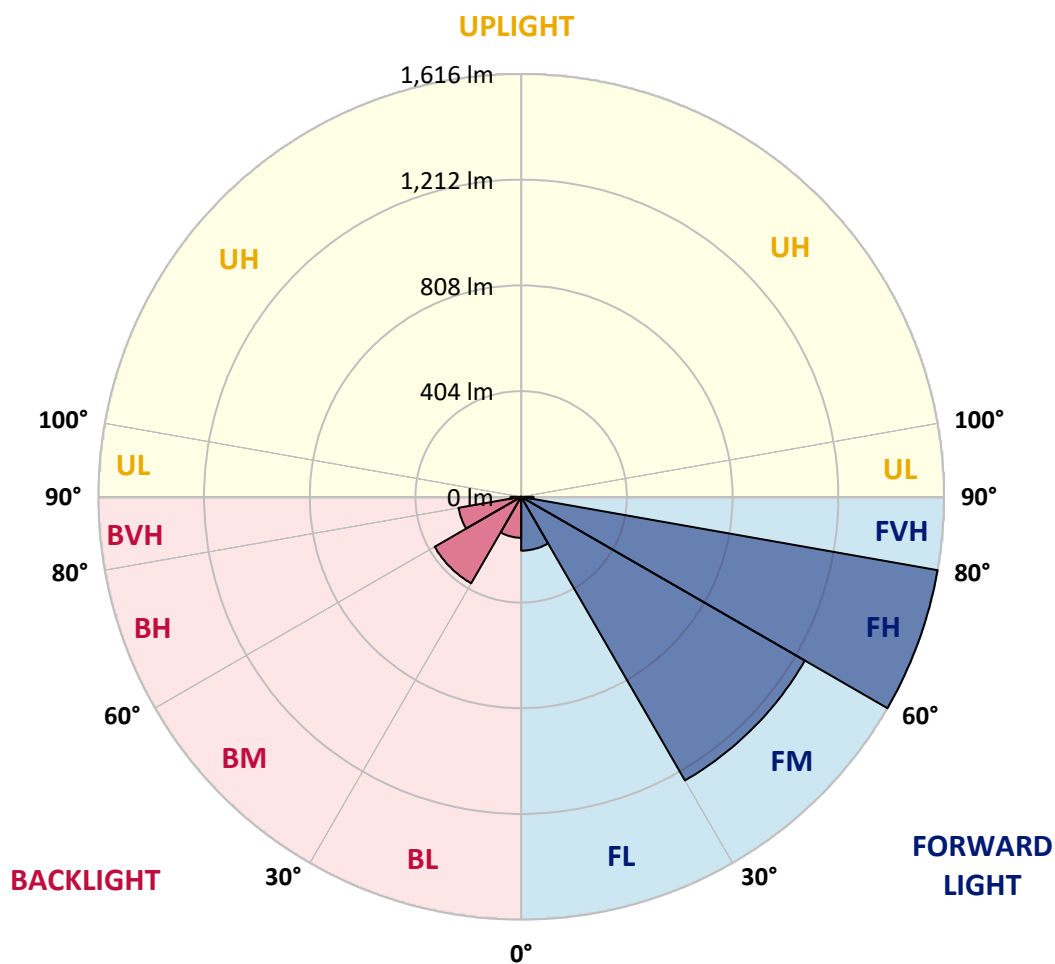
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.7	5.2			
FM	(30°-60°)	1251.7	31.7			
FH	(60°-80°)	1616.0	41.0			G1/1800
FVH	(80°-90°)	47.1	1.2			G1/100
BL	(0°-30°)	156.6	4.0	B1/500		
BM	(30°-60°)	381.8	9.7	B1/1000		
BH	(60°-80°)	243.0	6.2	B1/500		G1/500
BVH	(80°-90°)	41.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	484.3	483.5	483.0	482.3	481.3	476.5	475.6	472.1	467.3	462.2	457.1
5°	516.2	516.0	513.9	510.1	503.9	493.5	490.9	482.5	471.1	460.2	449.3
7.5°	544.2	542.5	538.5	530.8	520.1	505.7	502.3	490.6	474.9	460.0	445.2
10°	564.8	563.8	555.0	544.4	530.5	514.5	510.5	497.4	480.4	461.4	442.9
12.5°	576.5	574.6	564.5	551.8	535.1	519.5	515.4	502.3	483.0	461.4	439.7
15°	575.7	574.3	564.3	550.3	533.5	519.8	516.2	503.0	482.5	459.4	435.5
17.5°	560.4	560.9	552.3	538.6	524.9	514.5	511.3	499.0	478.7	455.6	430.5
20°	533.5	536.1	530.5	518.3	510.7	503.5	501.5	491.1	472.6	450.0	425.1
22.5°	506.6	509.1	506.9	496.7	495.5	491.3	490.1	482.7	467.5	446.6	421.8
25°	486.9	489.2	488.8	479.9	483.5	483.3	482.3	478.7	466.3	446.6	422.4
27.5°	481.5	482.3	481.5	473.4	478.2	482.1	481.3	480.7	469.9	452.2	429.7
30°	500.0	498.8	492.9	476.5	481.0	486.3	485.5	485.8	480.2	466.7	446.0
32.5°	573.4	568.2	549.5	503.5	491.8	494.7	495.2	501.5	502.4	489.2	471.4
35°	683.3	677.5	653.2	576.2	525.9	515.8	515.8	525.4	531.2	521.3	510.7
37.5°	799.8	793.4	780.4	676.7	597.2	552.6	551.5	558.2	566.5	568.8	571.5
40°	932.1	925.4	929.0	789.4	696.7	616.0	602.3	597.5	619.8	634.6	656.1
42.5°	1077.0	1073.9	1075.2	915.0	810.1	710.9	691.6	666.8	693.7	719.9	765.1
45°	1211.0	1213.8	1212.4	1049.6	936.4	826.8	806.4	758.4	784.6	829.8	903.1
47.5°	1328.5	1317.3	1334.6	1196.5	1077.8	956.4	931.2	866.9	893.5	949.3	1073.5
50°	1470.9	1469.4	1444.2	1392.5	1248.7	1086.8	1053.6	979.2	1020.6	1097.8	1288.1
52.5°	1620.9	1593.0	1569.8	1545.0	1429.9	1220.3	1179.6	1091.0	1169.8	1267.1	1549.9
55°	1651.6	1639.0	1667.9	1709.5	1604.7	1358.9	1311.5	1231.3	1337.9	1460.5	1851.6
57.5°	1717.1	1716.9	1776.4	1850.7	1784.6	1506.1	1458.4	1400.6	1526.8	1682.0	2172.0
60°	1761.5	1774.0	1884.4	2028.5	1961.3	1676.0	1632.2	1596.1	1741.7	1929.7	2470.5
62.5°	1784.6	1801.5	1952.4	2100.6	2211.1	1959.0	1915.1	1863.1	2026.0	2201.3	2645.0
65°	1688.2	1721.4	1941.7	2163.0	2429.8	2417.7	2397.9	2306.7	2381.5	2415.9	2581.9
67.5°	1421.1	1455.2	1711.8	2104.9	2585.9	2860.1	2864.3	2708.3	2600.2	2434.4	2170.9
70°	1012.5	1039.2	1251.6	1764.7	2467.0	3149.2	3163.6	2893.5	2556.5	2159.0	1516.6
72.5°	480.7	497.0	698.0	1148.6	1957.7	2885.4	2913.2	2657.0	2173.9	1598.4	827.4
75°	176.7	181.7	236.0	488.6	1135.5	2127.9	2160.6	1904.7	1441.1	795.7	315.2
77.5°	105.9	109.2	132.3	206.2	446.6	1216.3	1264.7	1035.9	629.8	296.2	155.0
80°	74.1	76.4	94.9	128.4	211.0	463.5	506.6	422.9	251.0	187.4	112.7
82.5°	50.0	51.3	66.7	86.8	140.2	165.5	178.6	188.0	169.3	139.5	71.6
85°	32.8	34.0	45.3	57.2	89.1	85.5	87.5	110.7	123.6	94.7	39.7
87.5°	18.8	19.5	27.2	30.5	43.7	36.3	36.6	58.4	79.0	63.9	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6	457.6
2.5°	455.8	453.3	447.8	444.2	441.1	440.4	438.9	438.6	438.5	438.5	437.9
5°	445.7	441.4	432.7	428.0	423.9	423.6	423.4	424.4	424.7	425.1	424.6
7.5°	439.1	433.3	422.7	415.7	411.0	409.7	411.7	416.1	419.0	420.1	419.5
10°	435.1	428.0	415.5	408.1	404.0	403.3	405.9	411.2	417.1	419.3	419.1
12.5°	430.5	422.4	409.1	401.3	399.1	400.2	403.3	408.2	414.4	418.0	418.3
15°	425.9	416.5	402.8	395.9	395.0	396.5	399.6	403.2	408.1	411.7	412.0
17.5°	420.3	410.5	396.9	389.8	389.1	389.8	390.0	391.9	395.0	398.5	399.5
20°	414.4	404.4	390.2	383.1	379.6	376.6	373.1	373.5	374.4	377.9	378.7
22.5°	410.2	400.2	385.0	375.2	366.0	356.8	349.9	349.0	349.3	352.3	353.1
25°	410.5	400.0	383.7	366.8	346.7	331.9	322.7	321.1	320.9	323.1	324.4
27.5°	418.0	407.4	388.6	358.2	325.6	303.6	293.9	292.7	291.1	291.8	293.4
30°	434.8	424.9	400.8	349.3	302.7	276.1	265.9	264.7	262.7	261.6	262.8
32.5°	461.9	453.9	418.4	340.9	279.9	252.5	242.1	239.6	238.3	237.1	238.0
35°	507.2	503.8	442.0	331.7	259.7	234.3	224.8	221.0	219.1	221.1	222.7
37.5°	578.2	580.1	472.9	317.3	244.2	222.2	214.2	209.9	206.9	208.6	210.5
40°	678.7	680.0	507.1	296.9	230.7	215.0	206.6	202.5	198.6	195.5	195.2
42.5°	810.7	797.0	540.7	274.9	215.2	210.7	201.2	196.2	190.1	181.7	180.0
45°	967.3	919.5	566.1	249.5	197.8	205.3	195.2	188.4	178.7	169.6	168.6
47.5°	1147.5	1050.8	578.5	223.3	181.5	197.4	188.0	177.1	165.0	160.4	159.8
50°	1367.8	1206.9	584.5	197.8	167.2	187.1	177.4	164.6	154.4	153.5	152.9
52.5°	1618.5	1394.4	586.4	176.9	155.5	173.6	168.8	156.3	148.3	149.0	149.0
55°	1881.0	1588.2	560.4	161.7	144.9	159.8	163.1	153.1	146.4	149.4	150.6
57.5°	2122.0	1759.9	478.2	150.0	134.7	149.2	160.9	156.1	151.6	164.0	164.8
60°	2306.8	1861.3	357.2	139.5	127.2	145.7	166.5	167.8	169.1	198.8	202.7
62.5°	2345.6	1827.6	245.5	131.2	123.7	148.7	176.7	176.9	175.6	196.2	198.8
65°	2167.7	1614.1	178.6	126.6	120.8	154.3	185.3	181.3	172.4	188.2	183.5
67.5°	1721.5	1216.0	148.7	123.1	116.7	153.8	194.5	185.3	170.8	184.3	176.9
70°	1117.4	735.4	132.3	120.3	111.7	146.5	200.0	184.9	165.7	171.5	162.7
72.5°	545.2	328.8	121.4	116.1	106.4	136.3	199.7	181.5	160.6	160.2	155.3
75°	213.3	150.6	111.5	109.7	97.7	124.9	194.4	176.5	154.4	148.3	146.5
77.5°	124.9	107.4	98.8	100.3	87.1	113.4	186.5	167.8	146.0	138.6	136.8
80°	90.9	80.5	84.2	86.8	74.4	101.8	175.9	157.4	136.6	140.2	137.5
82.5°	58.4	51.8	68.3	70.8	62.0	90.1	164.4	146.2	123.4	112.0	109.4
85°	29.7	32.8	50.8	53.9	47.7	74.1	150.4	131.4	108.3	93.2	94.7
87.5°	16.7	22.4	32.4	36.3	33.8	57.0	122.1	108.3	88.4	71.9	63.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)